

What is claimed is:

1. An optical recording apparatus for recording a data pulse signal constituted by consecutive pairs of mark and space on an optical recording medium, comprising:

a drive pulse generator for generating a drive pulse in response to the data pulse signal;

a light source element for generating a write beam in response to the drive pulse; and

an optical system for irradiating the write beam onto the optical recording media, wherein the drive pulse generator includes a write pulse generator for generating a write pulse signal based on the data pulse signal, a write beam intensity detector for detecting intensity of the write beam and generating a write beam intensity signal representing the detected intensity, an instruction pulse generator for comparing the write pulse signal with the write beam intensity signal and generating an instruction pulse which is obtained by regulating a pulse width of the write pulse in response to a comparison signal representing a result of comparison, and a drive unit for generating the drive pulse in response to the instruction pulse.

2. The optical recording apparatus according to claim 1, wherein the write pulse generator converts each pair of mark and space into strategy data including a plurality of consecutive pulses, and the strategy data is used as the write

pulse.

3. The optical recording apparatus according to claim 2, wherein the strategy data includes a single leading pulse and a number of subsequent pulses corresponds to a mark length of the pair of mark and space.

4. The optical recording apparatus according to claim 3, wherein the strategy data further includes a cool pulse at a position corresponding to immediate behind the mark of the pair of mark and space.

5. The optical recording apparatus according to claim 1, wherein the comparison signal represents a phase difference between the write pulse and the write beam intensity signal.

6. The optical recording apparatus according to claim 3, wherein the comparison signal represents three phase differences with respect to three kinds of pulses, which are the leading, subsequent and cool pulses included in the strategy data.